

# ATTACHMENT C-3

McKesson Chemical Co.

DEC 11 1973

Pacific District

655

McK00718

4. Bulk Material will be loaded: ☐ Into a storage tank  
☒ Directly into Containers ☐ Other (explain) \_\_\_\_\_
5. Each container is to be filled to 519 (lbs) ~~(gals)~~ net and is,  
☒ Non-Returnable (N/R) which meets DOT\* Specification 17E  
costing \$ 9.80 each. A lining is required ☒ Yes ☐ No  
☐ Returnable and the Deposit to Customers is to be \$ \_\_\_\_\_  
Type of Style Container \_\_\_\_\_  
Sufficient containers are presently on hand ☐ Yes ☐ No  
must purchase \_\_\_\_\_ at \$ \_\_\_\_\_ each
6. McKesson label, Code Number E25PSIC will be used. If a McKesson label is not available, attach a copy of the Supplier's label.
7. Estimate Repack Cost - Use latest Branch Repack Quarterly Analysis of cost to estimate direct labor and overhead. Consult Regional Accounting Office if information is not available. Information is taken from report for period ending 9-30-73.

	Per Package	Unit Cost
a) Bulk Material	42.04	8.10/Cwt ✓
b) N/R Container	9.80	1.89 "
c) Direct labor	.57	.11 ✓ "
d) Overhead	1.51	.29 ✓ "
e) Total cost to repack	53.92	10.39 "
f) Present cost (A-6)	63.06	12.15 "
g) Additional Profits	9.14	1.76 "

Amount of profit improvement through repacking (existing business)

$$\frac{10}{\text{Avg Sales/mo (A-8)}} \times \frac{9.14}{\text{Add'l Profit/Pkg}} \times 12 = \$ 1,096.80 \text{ per year}$$

\* Department of Transportation

McKesson Chemical Co.

DEC 11 1973

Fertilizer District

McK00720

8. Does the Branch have up-to-date Supplier's literature concerning potential hazards and their recommendations for handling and storing this material? ☒ Yes ☐ No. If not has this literature been requested? ☐ Yes ☐ No.
9. As classified by DOT, is this material "regulated"? ☐ Yes ☒ No  
If yes, the required Caution label is ☐ White ☐ Yellow  
☐ Red ☐ Other, explain \_\_\_\_\_
10. To handle this item, Branch Repackaging facilities:  
☒ Are adequately equipped requiring only a nominal amount of expense estimated at \$ None for miscellaneous hose, fittings, etc.  
☐ Will require additional equipment or modification of a Capital nature estimated at \$ \_\_\_\_\_. This is provided in the Budget ☐ Yes ☐ No.  
Furnish complete details.

C. PERSONNEL REQUIREMENTS - Advise if additional employees will be needed and the resulting additional labor expense.

D. ADVANTAGES AND OTHER COMMENTS

1. As a result of repacking, additional business can be expected in the near term as follows:
- a) Number of new accounts 3
  - b) Additional packages to be sold 120 per year
  - c) Additional annual sales \$ 9,342.00
  - d) Additional gross profit \$ 1,775.00
2. Besides an apparent savings, just why is this repackaging being requested? If a competitive situation is involved, briefly discuss who, where and the exact nature of the competition.
- Dow expects to be able to sell us the material in 1974 with combination bulk shipments only.

Quinn Bricker 12-7-73  
(Branch Manager) (Date)

Paul L. Jones 12/10/77  
(District Manager) (Date)

Am... .. 12/11/73  
(Regional Manager) (Date)

McKesson C. ...  
Pacific Region

DEC 11 1973

McKESSON CHEMICAL COMPANY  
APPROVAL TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83  
Item Freon TE  
Supplier(s) SuPont TOSCA No. (s) \_\_\_\_\_  
Packed From Storage Tank UN No. \_\_\_\_\_  
DOT Class Non-Regulated Commodity Label \_\_\_\_\_  
Container Type DOT 17E-55 Gal. Lined Net Weight(s) 690 lbs.  
Bulk

☒ Non-Returnable ☐ Returnable

Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other Hazard \_\_\_\_\_  
Product waste to be regarded as hazardous: Yes ☐ No ☐

SPECIAL NOTES AND/OR PRECAUTIONS

- Follow Regional procedure.

HOME OFFICE APPROVAL

C.R. Piercy

Date: 5-25-83

McK00723

REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83  
Item Freon TE Request to Repack Shows:  
Supplier(s) \_\_\_\_\_ Present Sales \_\_\_\_\_/Yr.  
Addn. Sales \_\_\_\_\_/Yr.  
Packed From \_\_\_\_\_ Savings/Profit \_\_\_\_\_/Yr.  
DOT Class \_\_\_\_\_ UN No. \_\_\_\_\_ TOSCA No. \_\_\_\_\_  
Container Type \_\_\_\_\_ Commodity Label \_\_\_\_\_  
Net Weight(s) 690 Lbs.

☐ Non-Returnable ☐ Returnable @ \$ \_\_\_\_\_ Deposit  
Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other \_\_\_\_\_  
Product waste to be regarded as hazardous: Yes ☐ No ☐

<u>ROUTING:</u>	<u>YES</u>	<u>NO</u>	<u>Initial and Date</u>
1. C.R. Piercy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2. D.L. Eisner	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3. B. Mowers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4. J. Lacey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
5. M. A. Minor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
6. D. A. Davis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
7. C. R. Piercy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
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\_\_\_\_\_



McKESSON CHEMICAL COMPANY  
APPROVAL TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83

Item Freon TES

Supplier(s) DuPont TOSCA No. (s) \_\_\_\_\_

Packed From Storage Tank UN No. \_\_\_\_\_

DOT Class Non-Regulated Commodity Label \_\_\_\_\_

Container Type DOT 17E-55 Gal. Lined Net Weight(s) 690 lbs.

Bulk

☒ Non-Returnable ☐ Returnable

Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other Hazard \_\_\_\_\_

Product waste to be regarded as hazardous: Yes ☐ No ☐

SPECIAL NOTES AND/OR PRECAUTIONS

- Follow Regional procedure.

HOME OFFICE APPROVAL

C.R. Piercy  
C.R. Piercy

Date: 5-25-83

McK00725

REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83

Item Freon TIES Request to Repack Shows:

Supplier(s) \_\_\_\_\_ Present Sales \_\_\_\_\_/Yr.  
Addn. Sales \_\_\_\_\_/Yr.

Packed From \_\_\_\_\_ Savings/Profit \_\_\_\_\_/Yr.

DOT Class \_\_\_\_\_ UN No. \_\_\_\_\_ TOSCA No. \_\_\_\_\_

Container Type \_\_\_\_\_ Commodity Label \_\_\_\_\_

Net Weight(s) 690 lbs

☐ Non-Returnable ☐ Returnable @ \$ \_\_\_\_\_ Deposit

Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other \_\_\_\_\_

Product waste to be regarded as hazardous: Yes ☐ No ☐

ROUTING: YES NO Initial and Date

1. C.R. Piercy

2. D.L. Eisner

3. B. Mowers

4. J. Lacey

5. M. A. Minor

6. D. A. Davis

COMMENTS: 7. C. R. Piercy

McKESSON CHEMICAL COMPANY  
APPROVAL TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83  
Item Freon TMC  
Supplier(s) DuPont TOSCA No. (s) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Packed From Storage Tank UN No. \_\_\_\_\_  
DOT Class Non-Regulated Commodity Label \_\_\_\_\_  
Container Type DOT 17E-55 Gal. Lined Net Weight(s) 630 lbs.  
Bulk

☒ Non-Returnable ☐ Returnable  
Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other Hazard \_\_\_\_\_  
Product waste to be regarded as hazardous: Yes ☐ No ☐

SPECIAL NOTES AND/OR PRECAUTIONS

- Follow Regional procedure.

HOME OFFICE APPROVAL

C.R. Piercy  
C.R. Piercy

Date: 5-25-85

REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83

Item From TRAC Request to Repack Shows:

Supplier(s) \_\_\_\_\_ Present Sales \_\_\_\_\_/Yr.

Addn. Sales \_\_\_\_\_/Yr.

Packed From \_\_\_\_\_ Savings/Profit \_\_\_\_\_/Yr.

DOT Class \_\_\_\_\_ UN No. \_\_\_\_\_ TOSCA No. \_\_\_\_\_

Container Type \_\_\_\_\_ Commodity Label \_\_\_\_\_

Net Weight(s) 630 Lbs

☒ Non-Returnable ☐ Returnable @ \$ \_\_\_\_\_ Deposit

Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other \_\_\_\_\_

Product waste to be regarded as hazardous: Yes ☐ No ☐

ROUTING: YES NO Initial and Date

1. C.R. Piercy \_\_\_\_\_

2. D.L. Eisner \_\_\_\_\_

3. B. Mowers \_\_\_\_\_

4. J. Lacey \_\_\_\_\_

5. M. A. Minor \_\_\_\_\_

6. D. A. Davis \_\_\_\_\_

COMMENTS: 7. C. R. Piercy \_\_\_\_\_

See TR Approval

McKESSON CHEMICAL COMPANY  
APPROVAL TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83

Item Freon TMS

Supplier(s) DuPont TOSCA No. (s) \_\_\_\_\_

Packed From Storage Tank UN No. \_\_\_\_\_

DOT Class Non-Regulated Commodity Label \_\_\_\_\_

Container Type DOT 17E-55 Gal. Lined Net Weight(s) 650 lbs.

Bulk

☒ Non-Returnable ☐ Returnable

Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other Hazard \_\_\_\_\_

Product waste to be regarded as hazardous: Yes ☐ No ☐

SPECIAL NOTES AND/OR PRECAUTIONS

- Follow Regional procedure.

HOME OFFICE APPROVAL

C.R. Piercy  
C.R. Piercy

Date: 5-25-83

REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83

Item Frcon TMS Request to Repack Shows:

Supplier(s) \_\_\_\_\_ Present Sales \_\_\_\_\_/Yr.

Addn. Sales \_\_\_\_\_/Yr.

Packed From \_\_\_\_\_ Savings/Profit \_\_\_\_\_/Yr.

DOT Class \_\_\_\_\_ UN No. \_\_\_\_\_ TOSCA No. \_\_\_\_\_

Container Type \_\_\_\_\_ Commodity Label \_\_\_\_\_

Net Weight(s) 650 Lbs

☒ Non-Returnable ☐ Returnable @ \$ \_\_\_\_\_ Deposit

Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other \_\_\_\_\_

Product waste to be regarded as hazardous: Yes ☐ No ☐

ROUTING: YES NO Initial and Date

1. C.R. Piercy

2. D.L. Eisner

3. B. Mowers

4. J. Lacey

5. M. A. Minor

6. D. A. Davis

COMMENTS: 7. C. R. Piercy

McKESSON CHEMICAL COMPANY  
APPROVAL TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83

Item Freon TA

Supplier(s) DuPont TOSCA No. (s) \_\_\_\_\_

Packed From Storage Tank UN No. \_\_\_\_\_

DOT Class Non-Regulated Commodity Label \_\_\_\_\_

Container Type DOT 17E-55 Gal. Lined Net Weight(s) 630 lbs.

Bulk

☒ Non-Returnable ☐ Returnable

Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other Hazard \_\_\_\_\_

Product waste to be regarded as hazardous: Yes ☐ No ☐

SPECIAL NOTES AND/OR PRECAUTIONS

- Follow Regional procedure.

HOME OFFICE APPROVAL

C.R. Piercy  
C.R. Piercy

Date: 5-25-83

McK00731

REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch/PRF San Francisco Region Approved J-8-85

Item Freon TA Request to Repack Shows:

Supplier(s) \_\_\_\_\_ Present Sales \_\_\_\_\_/Yr.

Addn. Sales \_\_\_\_\_/Yr.

Packed From \_\_\_\_\_ Savings/Profit \_\_\_\_\_/Yr.

DOT Class \_\_\_\_\_ UN No. \_\_\_\_\_ TOSCA No. \_\_\_\_\_

Container Type \_\_\_\_\_

Commodity Label \_\_\_\_\_

Net Weight(s) 630 Lbs

☐ Non-Returnable ☐ Returnable @ \$ \_\_\_\_\_ Deposit

Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other \_\_\_\_\_

Product waste to be regarded as hazardous: Yes ☐ No ☐

ROUTING: YES NO Initial and Date

1. C.R. Piercy

2. D.L. Eisner

3. B.Mowers

4. J. Lacey

5. M. A. Minor

6. D. A. Davis

COMMENTS: 7. C. R. Piercy

See TR Approval



McKESSON CHEMICAL COMPANY  
APPROVAL TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83

Item Freon TF

Supplier(s) DuPont TOSCA No. (s) \_\_\_\_\_

Packed From Storage Tank UN No. \_\_\_\_\_

DOT Class Non-Regulated Commodity Label \_\_\_\_\_

Container Type DOT 17E-55 Gal., Lined Net Weight(s) 690 lbs.

Bulk

☒ Non-Returnable ☐ Returnable

Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other Hazard \_\_\_\_\_

Product waste to be regarded as hazardous: Yes ☐ No ☐

SPECIAL NOTES AND/OR PRECAUTIONS

- Follow Regional procedure.

HOME OFFICE APPROVAL

C.R. Piercy

Date: 5-25-83

McK00733

# REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83  
 Item Freon TF Request to Repack Shows:  
 Supplier(s) DuPont Present Sales \_\_\_\_\_/Yr.  
 Addn. Sales \_\_\_\_\_/Yr.  
 Savings/Profit \_\_\_\_\_/Yr.  
 Packed From Storage Tank.  
 DOT Class Non-Regulated UN No. \_\_\_\_\_ TOSCA No. \_\_\_\_\_  
 Container Type DOT 17E-55-Gal. Lined  
Bulk Commodity Label \_\_\_\_\_  
 Net Weight(s) 690 Lbs

☒ Non-Returnable , ☐ Returnable @ \$ \_\_\_\_\_ Deposit  
 Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other \_\_\_\_\_  
 Product waste to be regarded as hazardous: Yes ☐ No ☐

<u>ROUTING:</u>	<u>YES</u>	<u>NO</u>	<u>Initial and Date</u>
1. C.R. Piercy	_____	_____	_____
2. D.L. Eisner	_____	_____	_____
3. B. Mowers	_____	_____	_____
4. J. Lacey	_____	_____	_____
5. M. A. Minor	_____	_____	_____
6. D. A. Davis	_____	_____	_____

COMMENTS: 7. C. R. Piercy  
Code:  
- Follow Regional procedure

# REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch/PRF San Francisco Region Approved 5-8-83

Item Frcons TF, TMS, TES, TA  
THC & TE

Request to Repack Shows:

Supplier(s) \_\_\_\_\_

Present Sales 240 Dms /Yr.

Packed From Du Pont  
BUEND TANK

Addn. Sales 500,000 # /Yr.

Savings/Profit \$4480 /Yr.

DOT Class Non-REG UN No. \_\_\_\_\_

TOSCA No. \_\_\_\_\_

Container Type DOT 17E-55 Gal LINED  
+ BULK

Commodity Label MeK

Net Weight(s) As per std.

☒ Non-Returnable ☐ Returnable @ \$ \_\_\_\_\_ Deposit

Sp. Gr. \_\_\_\_\_ Flash Point \_\_\_\_\_ °F TLV \_\_\_\_\_ Other \_\_\_\_\_

Product waste to be regarded as hazardous: Yes ☐ No ☐

## ROUTING:

YES NO

Initial and Date

1. C.R. Piercy ☒ \_\_\_\_\_

2. D.L. Eisner ☒ \_\_\_\_\_

3. B. Mowers ☒ \_\_\_\_\_

4. J. Lacey ☒ \_\_\_\_\_

5. M. A. Minor ☒ \_\_\_\_\_

6. D. A. Davis ☒ \_\_\_\_\_

Op 5-13-83  
DE 5/13/83

12 5-16-83  
5/16/83

um.m 5/19-83  
5/19/83

COMMENTS: 7. C. R. Piercy

2) RIS's attached

(4) DuPont MAY ONLY OFFER 'TA' IN FACTORY  
SEALED DRUMS.

To

C. R. Piercy - HO  
27th Floor

Date

MAY 13 1983

May 11, 1983



From

Bill Westrope

Copies to

A. M. McMahon - WRO  
J. L. Hill - S. F. District  
D. A. Krome - Union City  
K. Wicks - Union City

Location

Western Chemical Region

Subject

REQUEST TO REPACKAGE  
FREON TF, TMS, TES, TA, TMC & TE

Attached for Home Office approval is a request to repackage  
Freon TF, TMS, TES, TA, TMC and TE at our Union City Branch.

*Bill W*

Bill Westrope

SW

attachment

834  
REQUEST TO REPACKAGE  
(Revised - Jan. 1971)

McKESSON CO  
MAY 2 1983  
Western Region

Branch SF BAY (UNION CITY)  
Date \_\_\_\_\_

Name and Grade of Item to be Repacked FREON TF (TMS, TES, TA, TMC, TE)

Instructions - A separate form must be completed for each package size.  
Insert information where requested and delete units which  
do not apply. Where comments are requested, be as  
complete as possible yet concise.

A. CURRENT INFORMATION

1. Name of Supplier DUPONT
2. How is material now being obtained? 55 GAL STEEL LINED DR.
3. Size and type of container 55 GAL STEEL LINED DR
4. Net Weight 690 lbs.
5. Amount of Supplier's Container Deposit \$ 0
6. Present cost into stock including freight but less any allowances
  - a) Unit Cost \$ 91.00 (cwt) (gal.)
  - b) Package Cost \$ 662.40 (each)
7. Number of Current Branch customers 14
8. Average monthly Sales to these Customers 20 (drums) (cbys)/mo.

B. PACKAGING PROPOSAL

1. Name of Supplier(s) DUPONT
2. Is material to be Packed from Supplier's Drums? ☐ Yes ☒ No  
If yes, Supplier's container Deposit is \$ \_\_\_\_\_  
If no, complete items 3 and 4 below
3. 3000 gallons of Bulk material will be received in (multi)  
compartment (tank car) (tank truck). If more than one compartment  
identify other items in the load \_\_\_\_\_

(Revised - Jan. 1971)

4. Bulk Material will be loaded: ☒ Into a storage tank  
☐ Directly into Containers ☐ Other (explain) \_\_\_\_\_
5. Each container is to be filled to 690 (lbs.) (gal) net and is,  
☒ Non-Returnable (N/R) which meets DOT\* Specification \_\_\_\_\_  
costing \$ 26.32 each. A lining is required ☒ Yes ☐ No  
☐ Returnable and the Deposit to Customers is to be \$ \_\_\_\_\_  
Type of Style Container 17-E LINED  
Sufficient containers are presently on hand ☒ Yes ☐ No  
must purchase \_\_\_\_\_ at \$ \_\_\_\_\_ each
6. McKesson label, Code Number E27PSIA will be used. If a McKesson Label is not available, attach a copy of the Supplier's label.
7. Estimate Repack Cost - Use latest Branch Repack Quarterly Analysis of cost to estimate direct labor and overhead. Consult Regional Accounting Office if information is not available. Information is taken from report for period ending CURRENT.

	Per Package	Unit Cost
a) Bulk Material	607.2	.88 <sup>#</sup>
b) N/R Container	26.32	26.32
c) Direct Labor	1.24	.0018 <sup>#</sup>
d) Overhead	(8.97)	.013
e) Total cost to repack	643.73	27.21
f) Present cost (A-6)	662.40	
g) Additional Profits	<del>81.33</del> 18.67	

Amount of profit improvement through repacking (existing business)

20 x 18.67 x 12 4480.80 per year  
~~81.33~~ ~~1625.6~~

Avg. Sales/mo (A-8)

Add'l Profit/Pkg

(Revised - Jan. 1971)

8. Does the Branch have up-to-date Supplier's literature concerning potential hazards and their recommendations for handling and storing this material? ☒ Yes ☐ No. If not has this literature been requested? ☐ Yes ☐ No.
9. As classified by DOT, is this material "regulated"? ☐ Yes ☒ No. If yes, the required Caution label is ☐ White ☐ Yellow ☐ Red ☐ Other, explain \_\_\_\_\_
10. To handle this item, Branch Repackaging facilities:
- ☐ Are adequately equipped requiring only a nominal amount of expense Estimated at \$\_\_\_\_\_ for miscellaneous hose, fittings,
- ☒ Will require additional equipment or modification of a Capital nature estimated at \$\_\_\_\_\_ This is provided in the Budget ☐ Yes ☐ No. Furnish complete details.

SEE CE-10  
PROJECT

- C. PERSONNEL REQUIREMENTS - Advise if additional employees will be needed and the resulting additional labor expense.

D. ADVANTAGE AND OTHER COMMENTS

1. As a result of repacking, additional business can be expected in the near term as follows:
- a) Number of new accounts 10-20 drums & small bulk
  - b) Additional packages to be sold 500,000# per year
  - c) Additional annual sales \$ 360,000 (1st yr)
  - d) Additional gross profit \$ SEE project justification
2. Besides an apparent savings, just why is this repackaging being requested? If a competitive situation is involved, briefly discuss who, where and the exact nature of the competition.

(Branch Manager) (Date)

(District Manager) (Date)

(District Manager) (Date)

U.S. DEPARTMENT OF LABOR  
Occupational Safety & Health Administration  
**MATERIAL SAFETY DATA SHEET**

SECTION I	
MANUFACTURER'S NAME <b>E. I. duPont de Nemours &amp; Company</b>	EMERGENCY TELEPHONE NO. <b>(302) 774-2421</b>
ADDRESS (Number, Street, City, State, and ZIP Code) <b>Freon® Products Division, Wilmington, Delaware 19898</b>	
CHEMICAL NAME AND SYNONYMS <b>Trichlorotrifluoroethane</b>	TRADE NAME AND SYNONYMS <b>Freon® TF</b>
CHEMICAL FAMILY <b>Halogenated Hydrocarbon</b>	FORMULA <b>CCl<sub>2</sub>FCClF<sub>2</sub></b>

SECTION II HAZARDOUS INGREDIENTS				
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	% TLV (Units)
PIGMENTS	--		BASE METAL	--
CATALYST	--		ALLOYS	--
VEHICLE	--		METALLIC COATINGS	--
SOLVENTS	--		FILLER METAL PLUS COATING OR CORE FLUX	--
ADDITIVES	--		OTHERS	--
OTHERS	--			--
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				% TLV (Units)
None				

SECTION III PHYSICAL DATA			
BOILING POINT (°F.)	117.6	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	77°F 1.57
VAPOR PRESSURE (mm Hg.)	77°F 334	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	77°F 2.9	EVAPORATION RATE (CCl <sub>4</sub> =1)	0.3
SOLUBILITY IN WATER	77°F, % by wt. 0.02		
APPEARANCE AND ODOR Colorless liquid - slight ethereal odor.			

SECTION IV FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used)	None	FLAMMABLE LIMITS	LeI UeI
EXTINGUISHING MEDIA		None	
Nonflammable			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
None			

NOV 23 1981

NOTICE FROM DU PONT

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

McK00740



SECTION V HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	1000 ppm.
EFFECTS OF OVEREXPOSURE	Light-headedness, giddiness, shortness of breath, possible narcosis, possible cardiac arrhythmias at high concentrations.
EMERGENCY AND FIRST AID PROCEDURES	Inhalation: Remove to fresh air, call a physician. Do not give epinephrine or similar drugs.
	Skin or eye contact: Flush with water.

SECTION VI REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID Open flames or high temperatures.
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) Alkali or alkaline earth metals - powdered Al, Zinc, Beryllium, etc.			
HAZARDOUS DECOMPOSITION PRODUCTS Hydrochloric and hydrofluoric acids - possible carbonyl halides.			
HAZARDOUS -- POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Ventilate area - especially low places where heavy vapors might collect. Remove open flames.	
WASTE DISPOSAL METHOD	Reclaim by distillation

SECTION VIII SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) Use air mask in high concentrations.		
VENTILATION	LOCAL EXHAUST When large amounts are released.	SPECIAL
	MECHANICAL (General) Especially in low places.	OTHER
PROTECTIVE GLOVES When handling liquid.	EYE PROTECTION When handling liquid.	
OTHER PROTECTIVE EQUIPMENT		

SECTION IX SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store containers in a clean, dry, area. Do not heat above 125°F.	
OTHER PRECAUTIONS For further information see Freon® Products Bulletins FST-1, S-16, S-24, S-30.	

Branch/PRF San Francisco Region Approved 9/9/85  
Item Freon TP-35 Product Code 01116004 - 55 gal  
Supplier(s) \_\_\_\_\_ TOSCA No.(s) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Packed From \_\_\_\_\_ UN/NA # \_\_\_\_\_  
DOT Hazard Class Non-Regulated Commodity Label \_\_\_\_\_  
DOT Shipping Name \_\_\_\_\_ Net Weight(s) 525 lbs/45 lbs  
Container Type DOT 17E 55 Gal  
5 Gal Pails

☐ Returnable

SPECIAL NOTES AND/OR PRECAUTIONS

Date: 10/1/85

## PRODUCT SKU MAINTENANCE

09/30/85

NEXT: S (P S V A B D R T)

A/C: C PROD-CD: 01116005 ALIAS: FREDN

SUPLR-ID:

PROD-CD PROD-NAME

ALPHA-SEQ

FORMULA

01116005 FREDN

FREDN

TYP MKT RPT-GRPS HAZ MSD-# MSD-DT -----TSCA NUMBERS-----

R 5 NON / / 000076-43-1 000075-52-5 000067-63-0

FREIGHT-CLASS

RMRK REMARKS-TEXT

CLEANING COMPOUND LIQUID

RCRA

EPA-RQ

DOT-NAME

00000

OLD-CD QUALIFIER GRAD FORM -PACKAGE-- UM NET-WT GRS-WT SPG/DEN

013897 TP-35 MCKS LIQ 005 GL PL EA 00045.00 00050.20 000.0000

CNTR RTN TRK WT/GAL RMRK REMARKS-TEXT

TRM

3 P 00009.60

001

DOT-E ALLOC RST TP-MX TP-MN SF-LF DIR-QTY SPL-CHRG UN/NA# ---COMPATB---

B

00000 NNNNNN N +115 +032 999 23000

MTH P/C BU PU BRK MIN-BU 00001 00003 00009 00036 00000 00000 00000 00000

PBK C EA LB D04 MARGIN 24 21 18 15 00 00 00 00

STATUS: A 05/05/83 INPUT: 05/05/83 L-ACV: 09/25/85

McK00743

## PRODUCT SKU MAINTENANCE

09/30/85

NEXT: S (P S V A B D R T)

A/C: C PROD-CD: 01116004 ALIAS: FREON

SUPLR-ID:

PROD-CD PROD-NAME

ALPHA-SER

FORMULA

01116004 FREON

FREON

TYP MKT RPT-GRPS HAZ MSD-# MSD-DT -----TSCA NUMBERS-----

R 5 NON / / 000076-13-1 000075-52-5 000067-63-0

FREIGHT-CLASS

RMRK REMARKS-TEXT

CLEANING COMPOUND LIQUID

DOT-NAME

RCRA

EPA-RQ

00000

OLD-CD QUALIFIER GRAD FORM -PACKAGE-- UM NET-WT GRS-WT SPG/DEN

013889 TP-35 MCKS LIQ 055 GL DRM EA 00525.00 00545.00 000.0000

CNTR RTN TRK WT/GAL RMRK REMARKS-TEXT TRM

3 P 00009.60 001

DOT-E ALLOC RST TP-MX TP-MN SF-LF DIR-QTY SPL-CHRG UN/NA# ---COMPATB---

00000 NNNNNN N +115 +032 999 99999 B

MTH P/C BU PU BRK MIN-BU 00001 00003 00010 00040 00000 00000 00000 00000

PBK C EA LB D52 MARGIN 19 18 17 13 00 00 00 00

STATUS: A 01/13/83 INPUT: 01/13/83 L-ACV: 08/02/85

McK00744

Branch

Union City

Date

8-29-85

For ☐ New Product☐ Product on OLE, # 01116001☐ Product in Area, at1. Product InformationChemical Name FREON TP-35 Trade Name (if different)

DOT Hazard Class ☐ Flammable--flash point 20° to 100°F ☐ Combustible  
☐ Flammable--flash point below 20°F ☐ Oxidizer  
☐ Corrosive ☐ ORM-  
☐ Reactive, type ☒ Non-hazardous

Branch can safely handle: ☒ Yes (or) ☐ Not Yet, needsMSD Sheet on hand: ☐ Yes + attach copy  
☒ No, requested from Dipout ChemicalRIS on hand: ☒ Yes + attach copy  
☐ No, need one; temporarily use RIS #Handling--with storage in # tank; transfer by PumpIf Blend, components are: 64.7% Freon TF; 35% Anhydrous  
(by ☒ wt (or) ☐ vol.) Isopropanol; 0.3% Nitromethane2. ShippingShipping description: Cleaning Compound, Liquid  
UN#Shipping Method: ☒ Bulk, T/T Class-MC by ☒ Our fleet #  
☐ Common Carrier☐ Drums, Type Net Wt.☐ Labels -McK # (or) Supplier + attach copy☐ Labels on hand--no shipments unless properly labelled3. Sales & Costs

Monthly sales: \_\_\_\_\_ Drums (or) Bulk 200 gals.  
 Cost to produce & deliver \$ \_\_\_\_\_ /drum (or) Bulk \$ .84 /gal. lb  
 Selling price, delivered \$ \_\_\_\_\_ /drum (or) Bulk \$ 1.10 /gal. lb  
 Customer(s) has MSD Sheet ☐ Yes, & on record (or) ☐ No, but will have by

4. Approval levels

Branch: Ken Watson (on all applications)  
 Area Opns.: Ch. Princy (final if product/repack in Area) 8/29/85  
 Regional Opns.: \_\_\_\_\_ (final if product/repack in Region) 9/9/85  
 Area Director: \_\_\_\_\_ {additional approval required if  
 new product repack  
 NO Opns.: \_\_\_\_\_

McK00745

FOLLOWING INFORMATION TO BE FURNISHED BY BRANCH:

CUSTOMER: Megastor

**BLEND COMPONENTS:**

COMPONENTS:			
<u>Product</u>	<u>Grade</u>	<u>Amount</u> <u>Circle (Wt or Vol)</u>	<u>UN/NA No.</u>
Freon TF		64.7 %	
IPA		35.0 %	
Nitromethane		0.3 %	

CUSTOMER USAGE: 200 Gal / Mo

CUSTOMER TOLERANCE: Plus or Minus \_\_\_\_\_% DuPont Spec

METHOD OF BLENDING: (Explain how components are to be measured, what you will blend in, how will you assure that you have met customer tolerance, etc.) Individual

components are weighed on a platform scale. Materials are mixed in a 500 gal S.S. Liqua Bin. Gary Lienwieber tests the finished product to insure that it meets specs.

NOTE: PRIOR TO PRODUCTION BLEND APPROVAL, MCC LAB MUST PRODUCE A SAMPLE MIX TO ENABLE HOC TO GENERATE MSDS, RIS, LABEL ID, TOLERANCE ACCEPTANCE, ETC. A PORTION OF THIS MIX IS AVAILABLE FOR PRESENTATION TO YOUR CUSTOMER UPON REQUEST. MCC LAB/HOC REQUEST TEN WORKING DAY LEAD TIME FOR THIS PROCESS.

FOLLOWING INFORMATION TO BE FURNISHED BY REGION/HOC:

NAME OF BLEND: \_\_\_\_\_ (TO PRECLUDE DUPLICATION, THIS IS ONLY NAME TO BE USED BY MCC)

**LABEL TO BE USED:** \_\_\_\_\_

DOT SHIPPING CLASSIFICATION: \_\_\_\_\_ OR/RA NO. \_\_\_\_\_

DOT PROPER SHIPPING NAME: \_\_\_\_\_

PROPER METHOD OF BLENDING: \_\_\_\_\_

This is the best information available to us on the date this sheet was prepared. This sheet will be revised if and when new information becomes available. If you learn of new information, please add it hereon and if you have contrary information, please advise the Home Office.

**Repack  
Instruction  
Sheet C-19 -a**

McKesson Chemical Company  
Foremost-McKesson  
Chemical Group



**McKESSON  
CHEMICAL**

11/82N

Date	Product <b>FREON * T-P 35</b>	Lot No.
No. containers to be filled	Container <b>55 Gal Tight Head, DOT 17E, 16/18 Ga with approved Interior lining.</b>	

Labels: Place labels in a neat manner as instructed.

McKesson <b>F27PS1H</b>	Supplier
Special label instructions <b>Also one F26PS1 per container.</b>	
DOT <b>None</b>	Other

Stencil/Stamp (net weight is printed on label F27PS1H) (Calculate and stencil gross and tare weight)

Net Weight	<b>525 Lbs. 238</b>	Kilos	Gallons	Liters
Product Name (DOT) -- <b>TRICHLOROTRIFLUOROETHANE/ISOPROPANOL/NITROMETHANE (FREON * T-P 35)</b>				
Deposit \$	None Required <input type="checkbox"/>	Special Exemption Number	Hazard Identification Number <b>None</b>	
Other <b>Stencil product name on the side neatly and uniformly.</b>				

Bung Seals Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Type <b>Plastic</b>	Bung Type <b>Precoated steel</b>	Bung Gasket Type <b>Polyethylene</b>
Sampling Obtain two clean sample bottles from the laboratory. Collect one sample from the first drum filled and deliver it to the laboratory. Collect the second sample from one of the last five drums filled and also deliver it to the laboratory.			
Grounding Required Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Flushing Rinse with 3 gal of sacrificial Freon TF and set aside for reuse before subsequent Freon T-P 35 batches.		
Part/Drum Package If direct fill - Check stock for part drum. First drum filled should be part drum from previous fill. At end of fill, stencil amount on part drum and store in a protected area. Part drum(s) used and part drum remaining can be noted on job ticket. Leakers repacked and part drums used should be properly accounted for.			
Fill Procedure			
<p><b>** This product may only be filled in a module system dedicated to Freon Solvents.</b></p>			

O-400 (N 5-80)

**Be alert. Work safely.**

Safety and Health Information  
on reverse side of this form.

\* Trademark of Dupont.

\*\* Container should be cool. If possible, repack during the coolest part of the day to minimize vapors.

McK00747

## Safety/Health

TLV= 1000ppm for trichlorotrifluoro-

Ventilation: Local Exhaust <b>Mandatory</b>	Mechanical Freon Module Exhaust	Special ethane; 400ppm for isopropanol; 100ppm for nitromethane
Respiratory Protection (Type) <b>Twin cannister Black Code (Organic vapor) Respirator</b> <b>if exhaust system malfunctioning.</b>		
Eye Protection <b>Chemical goggles</b>		
Protective Clothing <b>Body covering clothing including arm and head protection. Neoprene or vinyl-coated gloves and apron.</b>		
Other Protective Equipment <b>Eyewash and safety shower <u>must</u> be available and operating.</b>		
First Aid Procedure <b>Eyes: Immediately water flush for 15 minutes. Get medical attention.</b> <b>Skin: Water flush for 15 minutes. Get medical attention. Wash clothes before reuse.</b> <b>Vapors: Remove to fresh air. Get medical attention. Wash clothes before reuse.</b> <b>Ingestion: Induce vomiting by giving water and sticking a finger down the throat.</b> <b>Get medical attention immediately.</b>		
Principal Hazards <b>Freon T-P35: Anesthetic effect in high concentrations. Can cause death if too much breathed. Prolonged or repeated contact may irritate and/or dry the skin. Liquid or mist will irritate the eyes. Isopropanol: Flammable! Keep away from open flames, sparks, heat. May irritate eyes, nose, &amp; throat. Breathing high concentration</b> <b>Nitromethane: Flammable! Keep away from open flames, sparks, or heat.</b> <b>Do not drop drums. Do not stack drums: store in a single layer. (see below)*</b>		
Special Information <b>Do not store where temperatures may exceed 125°F. Reacts with open flame to produce toxic vapors. Vapors heavier than air. Do not allow water to contact Freon T-P35 because a flammable liquid layer may be formed. Do not allow product to evaporate as the residual solvent will become flammable</b>		
Spill Control <b>Stop filling but not module venting, contain, evacuate unnecessary personnel from area. Call supervisor. Keep from ground, storm drain, and sewer. All personnel involved in clean-up should wear proper respirators and protective clothing. Small spills: Mop or wipe up. Large spills: Absorb onto sand or pump into closed container.</b>		

may

## To Be Completed by Repacker

Safety Equipment Satisfactory Yes <input type="checkbox"/> No <input type="checkbox"/> If Not	Explain <b>* Keep drums cool and out of direct sunlight.</b>
Exhaust Equipment Satisfactory Yes <input type="checkbox"/> No <input type="checkbox"/> If Not	Explain
Mechanical Equipment Satisfactory Yes <input type="checkbox"/> No <input type="checkbox"/> If Not	Explain
Comments:	
(Signed)	Date
(Repacker)	
Above comments noted and action taken as follows:	
(Signed)	Date
(Supervisor)	

McK00748



RAILBOX RECEIVE

09/09/85

NEXT: R (D T N)

DEST: 511 BUS-FUNC:

ALL-DEST: N/A

ATTN: C.R. PIERCY

FROM: MARIANNE DOMIN *Howell*

FROM: 001 DATE-SENT: 09/09/85

TIME-SENT: 11:54:19

TO: KEN WATSON

PLEASE BE ADVISED THAT YOUR APPROVAL FOR PC 0116005, FREDN TP-35 IN  
FAILS HAS BEEN DELETED. IF YOU WISH TO MAINTAIN APPROVAL, PLEASE ADVISE  
WHEN I WILL RECEIVE FORMAL REQUEST (PAPERWORK).

THANKS

MARIANNE

CC: C.R. PIERCY

*M.D. — SEP 26 1985*

*You should have a formal  
request by now. Processed  
a week ago.*

*P/s advise ed met. Keep approval  
in force till this cleared. *Cune**

RECEIVED SEP 19 1985

McK00749

PRODUCT SKU MAINTENANCE

09/27/85

NEXT: S (P S V A B D R T)

A/C: C PROD-CD: 01116001 ALIAS:

SUPLR-ID:

PROD-CD PROD-NAME ALPHA-SEQ FORMULA

01116001 FREON FREON

TYP MKT RPT-GRPS HAZ MSD-# MSD-DT -----TSCA NUMBERS-----  
R S NON / / 000074-13-1 000075-52-5 000047-63-0

FREIGHT-CLASS RMRK REMARKS-TEXT  
CLEANING COMPOUND LIQUID

DOT-NAME RCRA EPA-RQ  
00000

OLD-CD QUALIFIER GRAD FORM -PACKAGE-- UM NET-WT GRS-WT SPG/DEN  
013889 TP-35 MSS LIQ 001 GL BLK LB 00001.00 00001.00 000.0000

CNTR RTN TRK WT/GAL RMRK REMARKS-TEXT TRM  
1 B 00009.60 001

DOT-E ALLOC RST TP-MX TP-MN SF-LF DIR-QTY SPL-CHRG UN/NA# --COMPATB--  
00000 NNNNNN N +115 +032 999 30000 R

MTH P/C BU PU BRK MIN-BU 00001 04750 09500 40000 00000 00000 00000 00000

PBK C LB LB X95 MARGIN 64 .36 19 04 00 00 00 00

STATUS: A 04/23/82 INPUT: 04/23/82 L-ACV: 07/23/85

McKESSON CHEMICAL COMPANY  
APPROVAL TO REPACKAGE

Branch San Francisco Request Date 5/5/81 Region Approved 5/6/81  
Item Hydrogen Peroxide 31% - Reagent Grade  
Supplier(s) FMC Request to Repack Shows  
Present Sales 864 Dms. /Yr  
Addn. Sales - /Yr  
Packed From Tank Truck  
DOT Class Oxidizer Commodity Label New Label  
Container Type Polydrum - 55 Gal. Net Weight 480 lbs.

☐ Non-Returnable ☒ Returnable  
Flash Point - °F TLV 1ppm(mist) Other Hazard -  
Product waste to be regarded as hazardous: YES ☒ NO ☐

SPECIAL NOTES AND/OR PRECAUTIONS

- Only drums dedicated to this product are to be used.
- All heel material in returned drums is to be drained to the neutralization pit. If more than one gallon, dilute with 4 volumes of water.
- All drums, returned or new, will be rinsed, inspected, and siphoned dry or air-dried while inverted. Re-plug dried drums until scheduled for filling.
- A new McKesson label will be provided for this product. In addition to labeling, stencil product name and grade on each drum.

HOME OFFICE APPROVAL C.R.Piercy Date 6/12/81  
C.R. Piercy

The Regional Office will insert below and on the reverse side special instructions, procedures, tips on safety and handling as an aid to the Branch in utilizing the facilities and equipment available to them in the most efficient manner.

Completed By \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

# REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch San Francisco Bay Region 5/18/81  
 Item Hydrogen Peroxide 31% (Reagent) Approved 5/18/81  
 Supplier(s) FMC Corp. Request to Repack Shows:  
 Present Sales 864 Dm /Yr  
 Addn. Sales — /Yr  
 Packed From Tank Truck Repack Cost \$ 30.14/c.  
 DOT Class Oxidizer Savings/Profit \$ 6.64/c \$ 27,535/Yr  
 Container Type Poly drum - 55 gal Commodity Label New Label  
 Net Contents 480 lbs.

☐ Non-Returnable ☒ Returnable @ \$ — Deposit  
 Flash Point — °F TLV 1 ppm (NIOSH) OTHER —  
 Product waste to be regarded as hazardous: YES ☒ NO ☐

	YES	NO	Initial and Date
ROUTING:			
1. C.R. Piercy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>CP 5/18/81</u>
2. D.L. Eisner	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>DE 5/18/81</u>
3. D.A. Davis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>DA 5/18/81</u>
4. R.F. Tomeo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>RT 5/19/81</u>
✓ 5. B.L. Wilcox, Jr.	<input type="checkbox"/>	<input type="checkbox"/>	<u>—</u>
6. C.R. Piercy	<input type="checkbox"/>	<input type="checkbox"/>	<u>—</u>

COMMENTS: 1.) See attached from DLIE re Q.C.  
5/19/81 Hold for Region comment. (CP)  
Repack Code - See attached

Repack Code  
 $H_2O_2$  31% Reagent Grade

— Only drums dedicated to this product are to be used.

— all ~~drums~~ residual material in returned drums is to be drained to the neutralization pit. If more than ONE gallon, dilute with 4 volumes of water.

— All drums, returned or new, will be rinsed, inspected, and siphoned dry or air-dried while inverted. Re-plug dried drums until scheduled for filling.

— A new McKesson label will be provided for this product. In addition to labeling stencil product name and grade on each drum.

Foremost-McKesson, Inc.

## INTER-OFFICE/INTRA-COMPANY MEMO

TO		FROM	DATE
LOCATION AND COMPANY		LOCATION AND COMPANY	5/14/81
ATTENTION OF	INDIVIDUAL (ORIGINATOR)	ADDITIONAL COPIES TO	
Carl	DE	BCW	
SUBJECT			
H <sub>2</sub> O <sub>2</sub> Repack Request from WRO			
MESSAGE			
<p>1. Packages: I suggest the use of dedicated drums colored distinctively to identify them as for H<sub>2</sub>O<sub>2</sub> use only. This would prevent accidental mishaps while refilling and would reinforce the need for the customer not to put anything else in the drum. I also understand the drums must be labelled "This Side Up."</p> <p>2. Refill: 1) Invert and drain to vent pit 2) Visually inspect 3) Rinse once with deionized water, drain to vent pit 4) Allow to air dry while inverted or dry rapidly with dry steam 5) Siphon residual liquid, drain to vent pit 6) Replug to await refill</p> <p>3. Label: I'm putting a label together now - ready for printing soon.</p> <p>Comments?</p>			
REPLY			
<p>1</p>			
			DATE OF REPLY

ADDRESSEE'S COPY

McK00754

Foremost-Mckesson, Inc.

INTER-OFFICE/INTRA-COMPANY MEMO

TO		FROM	DATE
LOCATION AND COMPANY Western Chem Region		LOCATION AND COMPANY HO - Chem	5/18/81
ATTENTION OF W. B. Westrape	INDIVIDUAL (ORIGINATOR) C. Percy	ADDITIONAL COPIES TO BLW - HO, HMM - WRO DLE - HO, E19B - SF Dist	
SUBJECT Repair Request - H <sub>2</sub> O 31% Reagent S.F. Bay			
MESSAGE Doug Eisner looked at subject request from QC standpoint and recommends 1.) Dedicated, color-coded drums, 2.) Drain any heel to vent pit & visually inspect, 3.) Rinse with D-I water and drain, 4.) Insert to air-dry or siphon <del>down</del> rinse heel to pit, and 5.) replug until ready to fill. This will mean venting a deionizing unit, setting up a drum inspection light and siphon, and a pretty slow process. Since the profit is excellent we'll presume you can meet these recommendations, and will continue the request review unless you advise other.			
REPLY Doug is prepared to print the necessary new label.			
Carl			
P.S. Have attached some info from DuPont on rinse & siphon.			
			DATE OF REPLY

1

ADDRESSEE'S COPY

McK00755

Date: May 7, 1981

**FOREMOST  
McKESSON**

To:

B. L. Wilcox, Home Office

Copies To:

E. M. Burner, S.F. District  
A. M. McMahon, WRO

**From:**

Location:  
Western Chemical Region

Individual:

Bill Westrope

Subject:

H<sub>2</sub>O<sub>2</sub> REAGENT REQUEST TO REPACKAGE

Enclosed is a request to repackage Hydrogen Peroxide 31% Reagent from the Union City Branch. Their intent is to install a fill line from the rail station to their existing corrosive fill station and package into ACT returnable HDPE drums.

If approved, we need assistance on establishing container cleaning procedures prior to refill and we also will need labels.

Please contact if you have any questions.

Bill Westrope

SW

Encl.

his cleamout 40 car?  
 Dump? ← not mentioned  
 what size car?

RECEIVED

JUN 21 1981

ROBERTSON CHEMICAL COMPANY

McK00756



480  
72  
960  
3360  
44520

REQUEST TO REPACKAGE  
(Revised -- Jan. 1971)

Branch UNION CITY

Date 5/5/81

Name and Grade of Item to be Repacked HYDROGEN PEROXIDE 31% REAGENT

Instructions - A separate form must be completed for each package size. Insert information where requested and delete units which which do not apply. Where comments are requested, be as complete as possible yet concise.

A. CURRENT INFORMATION

1. Name of Supplier FMC CORP.
2. How is material now being obtained? TANK / CAR T/L DRUMS
3. Size and type of container 480# FIBER LINED
4. Net Weight 480 lbs.
5. Amount of Supplier's Container Deposit \$ N/A
6. Present cost into stock including freight but less any allowances  
a) Unit Cost \$ 36.78 (cwt) ~~(gal)~~ COST - 38.50 - 10% + FRT  
b) Package Cost \$ 176.54 each
7. Number of Current Branch Customers
8. Average monthly Sales to these Customers 72 (drums) ~~(cys)~~ /mo.

B. PACKAGING PROPOSAL

1. Name of Supplier (s) Fmc
2. Is material to be Packed from Supplier's Drums? ☐ Yes ☒ No  
If yes, Supplier's container Deposit is \$             
If no, complete items 3 and 4 below
3. 4000 gallons of Bulk material will be received in ~~(multi)~~ (single) compartment (tank car) ~~(tank truck)~~. If more than one compartment identify other items in the load

REQUEST TO REPACKAGE (CON'T)  
(Revised - Jan, 1971)

Page 2

4. Bulk Material will be loaded: ☐ Into a storage tank  
☒ Directly into Containers ☐ Other (explain) \_\_\_\_\_
5. Each container is to be filled to 480 (lbs) (~~gal~~) net and is,  
☐ Non-Returnable (N/R) which meets DOT\* Specification \_\_\_\_\_  
costing \$ \_\_\_\_\_ each. A lining is required ☐ Yes ☐ No  
☒ Returnable and the Deposit to Customers is to be \$ 30.00  
Type of Style Container ACT II  
Sufficient containers are presently on hand ☐ Yes ☒ No  
must purchase 200 at \$ 25.00 each 5000.00
6. McKesson label, Code Number (REQUEST LABEL) will be used. If a McKesson label is not available, attach a copy of the Supplier's label.
7. Estimate Repack Cost - Use latest Branch Repack Quarterly Analysis of cost to estimate direct labor and overhead. Consult Regional Accounting Office if information is not available. Information is taken from report for period ending FEB-81.

	Per Package	Unit Cost
a) Bulk Material	<u>136.80</u>	<u>.2439 + .0411 FRT</u> <u>.2850 #</u>
b) N/R Container	<u>—</u>	<u>—</u>
c) Direct labor	<u>.67</u>	<u>.0014 #</u>
d) Overhead	<u>7.20</u>	<u>.015 #</u>
e) Total cost to repack	<u>144.67</u>	<u>.3014</u>
f) Present cost (A-6)	<u>176.54</u>	<u>.3678</u>
g) Additional Profits	<u>31.87</u>	<u>.0664 #</u>

27.19/c - 10%  
+ 3.97/c  
+ 3.4264%  
S.C.  
FRT 4.11

Amount of profit improvement through repacking (existing business)

$$\frac{72}{\text{Avg Sales/mo. (A-8)}} \times \frac{31.87}{\text{Add'l Profit/Pkg}} \times 12 = \$ \underline{27535.68} \text{ per year}$$

\* Department of Transportation

McK00759

8. Does the Branch have up-to-date Supplier's literature concerning potential hazards and their recommendations for handling and storing this material? ☒ Yes ☐ No. If not has this literature been requested? ☐ Yes ☐ No.

9. As classified by DOT, is this material "regulated"? ☒ Yes ☐ No

If yes, the required Caution label is ☐ White ☒ Yellow

☐ Red ☐ Other, explain OXIDIZER

10. To handle this item, Branch Repackaging facilities:

☐ Are adequately equipped requiring only a nominal amount of expense estimated at \$ \_\_\_\_\_ for miscellaneous hose, fittings, etc.

☒ Will require additional equipment or modification of a Capital nature estimated at \$ 1500.00. This is provided in the Budget ☐ Yes ☒ No.

Furnish complete details. ALUMINUM PIPING, VALVES, X-MAS STOPS, ETC.

C. PERSONNEL REQUIREMENTS - Advise if additional employees will be needed and the resulting additional labor expense.

NONE

D. ADVANTAGES AND OTHER COMMENTS

1. As a result of repacking, additional business can be expected in the near term as follows:

a) Number of new accounts \_\_\_\_\_

b) Additional packages to be sold \_\_\_\_\_ per year

c) Additional annual sales \$ \_\_\_\_\_

d) Additional gross profit \$ \_\_\_\_\_

2. Besides an apparent savings, just why is this repackaging being requested? If a competitive situation is involved, briefly discuss who, where and the exact nature of the competition.

D. Krone By Rev.

(Branch Manager) (Date)

Ed Burns 5-6-81

(District Manager) (Date)

Adeline 5/6/81

(Regional Manager) (Date)

McKESSON CHEMICAL COMPANY  
APPROVAL TO REPACKAGE

Branch/PRF San Francisco Region Approved 3/21/83  
Item Isophorone  
Supplier(s) Union Carbide TOSCA No. (s) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Packed From Tank Truck UN No. \_\_\_\_\_  
DOT Class Non-regulated Commodity Label C48PS5  
Container Type DOT 17E 20/18 Ga. Net Weight(s) 425 lbs.  
New or Recond.

☒ Non-Returnable ☐ Returnable  
Sp. Gr. \_\_\_\_\_ Flash Point 179 °F TLV 5 ppm Other Hazard \_\_\_\_\_  
Product waste to be regarded as hazardous: Yes ☐ No ☐

SPECIAL NOTES AND/OR PRECAUTIONS

- Exhaust equipment must be operating during filling.
- In addition to labeling, stencil each drum "Isophorone".
- See Repack Instruction Sheet, attached.

HOME OFFICE APPROVAL

C.R. Piercy  
C.R. Piercy

Date: 4-4-83

McK00761

# REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch/PRF San Francisco Region Approved 3/21/83  
 Item Isophorone Request to Repack Shows:  
 Supplier(s) Union Carbide Present Sales 120 Dms /Yr.  
 Addn. Sales \_\_\_\_\_ /Yr.  
 Packed From Tank Truck Savings/Profit \$2299 /Yr.  
 DOT Class Non-regulated UN No. \_\_\_\_\_ TOSCA No. \_\_\_\_\_

Container Type DOT 17E 20/18 Ga.  
New or Recond. \_\_\_\_\_ Commodity Label G48PS5  
 Net Weight(s) 425 lbs.

☒ Non-Returnable ☐ Returnable @ \$ \_\_\_\_\_ Deposit

Sp. Gr. \_\_\_\_\_ Flash Point 179/205 °F TLV 5ppm Other \_\_\_\_\_

Product waste to be regarded as hazardous: Yes ☐ No ☐

ROUTING:	YES	NO	Initial and Date
1. C.R. Piercy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Op 3-25-83</u>
2. D.L. Eisner	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>DE 3/25/83</u>
3. B.Mowers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>3-28-83</u>
4. J. Lacey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>3-28-83</u>
5. M. A. Minor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>mm 3-30-83</u>
6. D. A. Davis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>3/30/83</u>

COMMENTS: 7. C. R. Piercy

Code: (6)  
(14) as above  
(14)

REQUEST TO REPACKAGE  
(Revised - Jan. 1971)

McKesson Chemical Co  
MAR 21 1983  
Western Region

MAR 24 1983

Branch SE BAY (UNION CITY)  
Date 2-14-83

Name and Grade of Item to be Repacked ISOPHORONE

Instructions - A separate form must be completed for each package size.  
Insert information where requested and delete units which  
do not apply. Where comments are requested, be as  
complete as possible yet concise.

A. CURRENT INFORMATION

1. Name of Supplier UNION CARBIDE
2. How is material now being obtained? FACTORY PACKS
3. Size and type of container 425# DR -
4. Net Weight 425 lbs.
5. Amount of Supplier's Container Deposit \$ NONE
6. Present cost into stock including freight but less any allowances
  - a) Unit Cost \$ .92L-5% (cwt) (gal.)
  - b) Package Cost \$ 371.45 (each)
7. Number of Current Branch customers ONE TWO - IBM - ISS SPERRY
8. Average monthly Sales to these Customers \_\_\_\_\_ (drums) (~~chs~~)/mo.  

IBM BOUG#T	84 - 6/82
ISS "	30 - 8/81
" "	65 - 2-6/81

B. PACKAGING PROPOSAL

1. Name of Supplier(s) UNION CARBIDE
2. Is material to be Packed from Supplier's Drums? ☐ Yes ☒ No  
If yes, Supplier's container Deposit is \$ \_\_\_\_\_  
If no, complete items 3 and 4 below
3. 2200 gallons of Bulk material will be received in (multi)  
compartment (tank car) (tank truck). If more than one compartment  
identify other items in the load \_\_\_\_\_

McK00763

## REQUEST TO REPACKAGE (CONT.)

(Revised - Jan. 1971)

4. Bulk Material will be loaded: ☐ Into a storage tank  
☒ Directly into Containers ☐ Other (explain) \_\_\_\_\_
5. Each container is to be filled to 425 (lbs.) (gal) net and is,  
☒ Non-Returnable (N/R) which meets DOT\* Specification \_\_\_\_\_  
 costing \$ 14.00 each. A lining is required ☐ Yes ☒ No  
☐ Returnable and the Deposit to Customers is to be \$ \_\_\_\_\_  
 Type of Style Container DOT 17E 20/18 GA. RECONO.  
 Sufficient containers are presently on hand ☒ Yes ☐ No  
 must purchase \_\_\_\_\_ at \$ \_\_\_\_\_ each
6. McKesson label, Code Number C48P55 will be used. If a McKesson Label is not available, attach a copy of the Supplier's label.  
CYCLOHEXANONE LABEL-GUT OF CYCLOHEXANONE AND STENCIL ISOPHORONE
7. Estimate Repack Cost - Use latest Branch Repack Quarterly Analysis of cost to estimate direct labor and overhead. Consult Regional Accounting Office if information is not available. Information is taken from report for period ending CURRENT

	Per Package	Unit Cost
a) Bulk Material	<del>331.50</del> <u>354.90</u>	.78
b) N/R Container	14.00	.0329 <sup>#</sup>
c) Direct Labor	1.26	.00297 <sup>#</sup>
d) Overhead	5.53	.013
e) Total cost to repack	<del>352.29</del> <u>375.69</u>	.82887
f) Present cost (A-6)	371.45	
g) Additional Profits	19.16	

Amount of profit improvement through repacking (existing business)

10 x 19.16 x 12 2299.00 per year

Avg. Sales/mo (A-8)      Add'l Profit/Pkg



(Revised - Jan. 1971)

*Very Limited Shelf life 2-3 months*

8. Does the Branch have up-to-date Supplier's literature concerning potential hazards and their recommendations for handling and storing this material? ☒ Yes ☐ No. If not has this literature been requested? ☐ Yes ☐ No.
9. As classified by DOT, is this material "regulated"? ☐ Yes ☒ No  
If yes, the required Caution label is ☐ White ☐ Yellow  
☐ Red ☐ Other, explain \_\_\_\_\_
10. To handle this item, Branch Repackaging facilities:
- ☒ Are adequately equipped requiring only a nominal amount of expense  
Estimated at \$ \_\_\_\_\_ for miscellaneous hose, fittings, e.
- ☐ Will require additional equipment or modification of a Capital nature  
estimated at \$ \_\_\_\_\_ This is provided in the Budget  
☐ Yes ☐ No. Furnish complete details.

- C. PERSONNEL REQUIREMENTS - Advise if additional employees will be needed and the resulting additional labor expense.

*NONE*

D. ADVANTAGE AND OTHER COMMENTS

1. As a result of repacking, additional business can be expected in the near term as follows:
- a) Number of new accounts \_\_\_\_\_
  - b) Additional packages to be sold \_\_\_\_\_ per year
  - c) Additional annual sales \$ \_\_\_\_\_
  - d) Additional gross profit \$ \_\_\_\_\_
2. Besides an apparent savings, just why is this repackaging being requested? If a competitive situation is involved, briefly discuss who, where and the exact nature of the competition.

3-10-83

*BEW  
3/21/83**DB DAFHOME 3/10/83*

(Branch Manager) (Date)

*J.M.*

(District Manager) (Date)

*3/21/83 [Signature] 3/21/83*

(Regional Manager) (Date)

# MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: May 1, 1981

## I. IDENTIFICATION

PRODUCT NAME:	Isophorone		
CHEMICAL NAME:	Isophorone	CHEMICAL FAMILY:	Ketones
FORMULA:	$\text{COCH}_2\text{C}(\text{CH}_3)\text{CH}_2\text{C}(\text{CH}_3)_2\text{CH}_2$	MOLECULAR WEIGHT:	138.21
SYNONYMS:	3, 5, 5, Trimethyl-2-cyclohexen-1-one		
DEPARTMENT OF TRANSPORTATION	HAZARD CLASSIFICATION	Combustible Liquid	
	SHIPPING NAME	Solvent, NOS	
CAS # 78-59-1	CAS NAME	3, 5, 5 Trimethyl-2-cyclohexen-1-one	

## II. PHYSICAL DATA

BOILING POINT, 760 mm Hg 101.325 kPa	215.3 °C (419.5 °F)	FREEZING POINT	-8.1 °C (17.4 °F)
SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	0.9220 at 20/20 °C	VAPOR PRESSURE at 20 °C	(< 0.01 kPa) < 1 mm Hg
VAPOR DENSITY (air = 1)	4.8	SOLUBILITY IN WATER, % by wt.	1.2
PER CENT VOLATILES BY VOLUME	Nil	EVAPORATION RATE (Butyl Acetate = 1)	0.02
APPEARANCE AND ODOR	Water-white liquid; mild odor.		

## III. INGREDIENTS

MATERIAL	%	TLV (Units)	HAZARD
Isophorone	97+	5 ppm ceiling (ACGIH) 25 ppm (OSHA)	Irritant
Trimethyl			
cyclohexene-one isomer	< 3		
B-xylitones			

## IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT [test method(s)]	179 °F, Tag Closed Cup 205 °F, Cleveland Open Cup			
FLAMMABLE LIMITS IN AIR, % by volume	LOWER	0.8	UPPER	3.8
EXTINGUISHING MEDIA	Use water spray, carbon dioxide, dry chemical, alcohol-type or universal-type foams applied by manufacturers recommended technique.			
SPECIAL FIRE FIGHTING PROCEDURES	Use supplied breathing air and protective clothing.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	None			

## EMERGENCY PHONE NUMBER

304/744-3487

This number is available days, nights, weekends, and holidays.

While Union Carbide Corporation believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Union Carbide Corporation assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and local laws and regulations.

UNION CARBIDE CORPORATION • SOLVENTS AND INTERMEDIATES DIVISION  
OLD RIDGEBURY ROAD, DANBURY, CT 06817

McK00766

## V. HEALTH HAZARD DATA

TLV AND SOURCE: 5 ppm (C) ACGIH 1980. 25 ppm OSHA CFR 29, Para. 1910.1000, Table Z-1.

ACUTE EFFECTS OF OVEREXPOSURE	
SWALLOWING	Moderately toxic by swallowing. Symptoms of poisoning will include irritation of mouth and throat, nausea, vomiting, abdominal discomfort and drowsiness.
SKIN ABSORPTION	Prolonged and/or extensive exposure may result in the absorption of harmful amounts of material.
INHALATION	Inhalation of moderately high concentrations of vapor may cause irritation of nose and throat, nausea, headache, dizziness and faintness.
SKIN CONTACT	Mild to moderate reddening, depending on duration of contact.
EYE CONTACT	Vapor is mildly irritant to the eye. Liquid causes severe eye injury.
CHRONIC EFFECTS OF OVEREXPOSURE	Prolonged exposure to vapor concentrations in excess of the TLV may cause fatigue and malaise.
OTHER HEALTH HAZARDS	None currently known.
EMERGENCY AND FIRST AID PROCEDURES:	
SWALLOWING	Do not induce vomiting. Call a physician.
SKIN	Remove contaminated clothing and wash skin with soap and water.
INHALATION	Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
EYES	Immediately flush eyes with plenty of water for 15 minutes. Seek medical attention, preferably an ophthalmologist urgently.

### NOTES TO PHYSICIAN

Aspirated isophorone may cause severe lung damage and present a significant hazard. Stomach contents should be evacuated quickly in a manner which avoids aspiration. Otherwise, treatment is directed at the control of symptoms and the clinical condition. No specific antidote is known.

## VI. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	None
UNSTABLE	STABLE		
--	✓		
INCOMPATIBILITY (materials to avoid)		Strong oxidizing agents.	
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS		Burning can produce carbon monoxide and/or carbon dioxide.	
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID	None
May Occur	Will not Occur		
--	✓		

## VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Wear suitable protective equipment. Small spills should be flushed with large quantities of water. Larger spills should be collected for disposal. Toxic to fish; avoid discharge to natural waters.
WASTE DISPOSAL METHOD	Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

## VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)	Self-contained breathing apparatus in high concentrations.		
VENTILATION	This product should be confined within closed equipment, in which case general (mechanical) room ventilation is expected to be satisfactory. Special, local ventilation should be provided at points where vapors can be expected to escape to the workplace air.		
PROTECTIVE GLOVES	Rubber	EYE PROTECTION	Monoggles
OTHER PROTECTIVE EQUIPMENT	Eye bath, safety shower.		

## IX. SPECIAL PRECAUTIONS

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not get in eyes, on skin, on clothing.  
Avoid breathing vapor.  
Keep container closed.  
Use with adequate ventilation.  
Wash thoroughly after handling.  
Do not swallow.

FOR INDUSTRY USE ONLY

OTHER PRECAUTIONS

McKESSON CHEMICAL COMPANY  
APPROVAL TO REPACKAGE

Branch Union City Region 2/16/82  
Item Isopropyl Acetate  
Supplier(s) Union Carbide Request to Repack Shows  
Present Sales 120 Dms. /Yr  
Addn. Sales                      /Yr  
Packed From Comp. Tank Truck  
DOT Class Flammable Commodity Label E23PS1C  
Container Type DOT 17E - 55 Gal. Net Weight 392 lbs.  
New or Recond.

☒ Non-Returnable ☐ Returnable  
Flash Point 60 O.C. °F TLV -- Other Hazard                       
Product waste to be regarded as hazardous: YES ☒ NO ☐

SPECIAL NOTES AND/OR PRECAUTIONS

- Static grounding equipment must be used. Inspect before each use.
- No open flame or unprotected lights permitted in repack area.
- Be cautious of contamination when switching compartments. Carefully flush the system and observe a sample to be sure.
- In addition to labeling, stencil each drum "Isopropyl Acetate".

HOME OFFICE APPROVAL C.R.P. Date 3/5/82  
C.R. Piercy

The Regional Office will insert below and on the reverse side special instructions, procedures, tips on safety and handling as an aid to the Branch in utilizing the facilities and equipment available to them in the most efficient manner.

Completed By                      Title                      Date

# REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch Union City Region Approved 2/16/82

Item Isopropyl Acetate Request to Repack Shows:

Supplier(s) Union Carbide Present Sales 120 Dms. /Yr

Addn. Sales - /Yr

Packed From Comp. Tank Truck Repack Cost -

DOT Class Flammable Savings/Profit - / \$1,824. /Yr

Container Type DOT 17E - <sup>55</sup>20/18 Gal. Commodity Label E23PS1C

New or Recomb. Net Contents 392 lbs.

☒ Non-Returnable ☐ Returnable @ \$ \_\_\_\_\_ Deposit

Flash Point 60 <sup>open</sup> cup °F TLV - OTHER \_\_\_\_\_

Product waste to be regarded as hazardous: YES ☒ NO ☐

	<u>YES</u>	<u>NO</u>	<u>Initial and Date</u>
<u>ROUTING:</u>			
1. C.R. Piercy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>CP 2/26/82</u>
2. D.L. Eisner	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>DE 2/26/82</u>
3. D.A. Davis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>DA 3/2/82</u>
4. R.F. Tomeo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>RT 3/1/82</u>
5. <del>B.L. Wilcox, Jr.</del>	<input type="checkbox"/>	<input type="checkbox"/>	
6. C.R. Piercy	<input type="checkbox"/>	<input type="checkbox"/>	

COMMENTS: 1.) No operational problems anticipated.

4/ Answer to D-1 - ctd & D-2 - in complete.

Code:

(8)

(9)

(12)

(17) as above

REQUEST TO REPACKAGE

(Revised - Jan. 1971)

Branch SF BAY (UNION CITY)

Date 1-19-82

Name and Grade of Item to be Repacked ISOPROPYL ACETATE

Instructions - A separate form must be completed for each package size.  
Insert information where requested and delete units which do not apply. Where comments are requested, be as complete as possible yet concise.

A. CURRENT INFORMATION

1. Name of Supplier UNION CARBIDE
2. How is material now being obtained? 55 GAL DRUMS
3. Size and type of container 55 GAL 17-E-20/18 GA.  
STEEL RECONO DRUMS.
4. Net Weight 392 lbs.
5. Amount of Supplier's Container Deposit \$ 0
6. Present cost into stock including freight but less any allowances
  - a) Unit Cost \$ .51 # - 5% (cwt) (gal.)
  - b) Package Cost \$ 192.83 (each)
7. Number of Current Branch customers 1
8. Average monthly Sales to these Customers 10 (drums) (cbs) mo.

B. PACKAGING PROPOSAL

1. Name of Supplier(s) UNION CARBIDE
2. Is material to be Packed from Supplier's Drums? ☐ Yes ☒ No  
If yes, Supplier's container Deposit is \$ \_\_\_\_\_  
If no, complete items 3 and 4 below
3. 1000 gallons of Bulk material will be received in (multi)  
compartment (tank car) (tank truck). If more than one compartment  
identify other items in the load \_\_\_\_\_

REQUEST TO REPACKAGE (CONT.)  
(Revised - Jan. 1971)

Page 2.

4. Bulk Material will be loaded: ☐ Into a storage tank  
☒ Directly into Containers ☐ Other (explain) \_\_\_\_\_
5. Each container is to be filled to 392 (lbs.) (gal) net and is,  
☒ Non-Returnable (N/R) which meets DOT\* Specification \_\_\_\_\_  
costing \$ \_\_\_\_\_ each. A lining is required ☐ Yes ☒ No  
☐ Returnable and the Deposit to Customers is to be \$ \_\_\_\_\_  
Type of Style Container 55 GAL 17-E STEEL 20/18 6A.  
Sufficient containers are presently on hand ☒ Yes ☐ No  
must purchase \_\_\_\_\_ at \$ \_\_\_\_\_ each
6. McKesson Label, Code Number E23PSIC will be used. If a McKesson Label is not available, attach a copy of the Supplier's label.
7. Estimate Repack Cost - Use latest Branch Repack Quarterly Analysis of cost to estimate direct labor and overhead. Consult Regional Accounting Office if information is not available. Information is taken from report for period ending \_\_\_\_\_

	Per Package	Unit Cost
a) Bulk Material	<u>155.92</u>	<u>.43L - 7 1/2 %</u>
b) N/R Container	<u>21.00</u>	<u>21.00 EA.</u>
c) Direct Labor	<u>.58</u>	<u>10.41</u>
d) Overhead	<u>.13</u>	<u>1.30 CWT.</u>
e) Total cost to repack	<u>177.63</u>	
f) Present cost (A-6)	<u><del>192.83</del></u>	
g) Additional Profits	<u>15.20</u>	

Amount of profit improvement through repacking (existing business)

10 x 15.20 x 12 = 1824.00 per year  
Avg. Sales/mo (A-8) Add'l Profit/Pkg

McK00772



(Revised - Jan. 1971)

8. Does the Branch have up-to-date Supplier's literature concerning potential hazards and their recommendations for handling and storing this material? ☒ Yes ☐ No. If not has this literature been requested? ☐ Yes ☐ No.
9. As classified by DOT, is this material "regulated"? ☒ Yes ☐ No  
If yes, the required Caution label is ☐ White ☐ Yellow  
☒ Red ☐ Other, explain \_\_\_\_\_
10. To handle this item, Branch Repackaging facilities:  
☒ Are adequately equipped requiring only a nominal amount of expense  
Estimated at \$ 0 for miscellaneous hose, fittings, etc.  
☐ Will require additional equipment or modification of a Capital nature  
estimated at \$ \_\_\_\_\_ This is provided in the Budget  
☐ Yes ☐ No. Furnish complete details.

- C. PERSONNEL REQUIREMENTS - Advise if additional employees will be needed and the resulting additional labor expense.

*NONE*

- D. ADVANTAGE AND OTHER COMMENTS

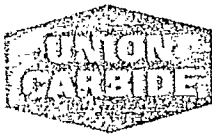
1. As a result of repacking, additional business can be expected in the near term as follows:

- a) Number of new accounts 3 3  
b) Additional packages to be sold 180 per year  
c) Additional annual sales \$ <?  
d) Additional gross profit \$ <?

2. Besides an apparent savings, just why is this repackaging being requested? If a competitive situation is involved, briefly discuss who, where and the exact nature of the competition.

*CANNOT OBTAIN FROM SUPPLIER*

*DAKrone* 2/10/82 *Ort* 2/16/82 *AMH*  
(Branch Manager) (Date) (District Manager) (Date) (Regional Manager) (Date)



# MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar" to Form LSB-00S-4)



CHEMICAL NAME: ISOPROPYL ACETATE

SYNONYMS: Acetic Acid, Isopropyl Ester

CHEMICAL FAMILY: Esters

FORMULA:  $\text{CH}_3\text{COOCH}(\text{CH}_3)_2$

MOLECULAR WEIGHT: 102.13

TRADE NAME AND SYNONYMS: Isopropyl Acetate

## I. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	88.5°C. (191.3°F.)	FREEZING POINT	-69.3°C.
SPECIFIC GRAVITY ( $\text{H}_2\text{O} = 1$ )	0.8737 at 20/20°C.	VAPOR PRESSURE at 20°C.	42 mm. Hg
VAPOR DENSITY (air = 1)	3.52	SOLUBILITY IN WATER, % by wt. at 20°C.	2.9
PER CENT VOLATILES BY VOLUME	100	EVAPORATION RATE (Butyl Acetate = 1)	5
APPEARANCE AND ODOR	Water-white liquid; nonresidual odor.		

## II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)
Not applicable		

## III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	60°F., Tag open cup	AUTOIGNITION TEMPERATURE	860°F.
FLAMMABLE LIMITS IN AIR, % by volume		LOWER	1.8
		UPPER	8.0

EXTINGUISHING  
MEDIA

Carbon dioxide or dry chemical for small fires.  
Ordinary foam for large fires.

SPECIAL FIRE FIGHTING  
PROCEDURES

None

UNUSUAL FIRE AND  
EXPLOSION HAZARDS

None

## EMERGENCY PHONE NUMBERS

Dr. C. U. Dernehl, 212/551-4785; 914/946-0646 (night)  
Dr. K. S. Lane, 212/551-4787; 914/666-3656 (night)  
C. P. Carpenter, Ph.D., 412/327-1020; 412/241-7896 (night)

Legal responsibility is assumed only for the fact that all studies reported here and all opinions are those of qualified experts

UNION CARBIDE CORPORATION • CHEMICALS AND PLASTICS • 270 PARK AVENUE, NEW YORK, N.Y. 10017

McK00774

## IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	250 ppm.
EFFECTS OF OVEREXPOSURE	Headache, nausea, vomiting, and loss of consciousness. Repeated skin contact may cause chapping.
EMERGENCY AND FIRST AID PROCEDURES	If inhaled, remove to fresh air. Give artificial respiration if breathing has stopped; then, give oxygen and call a physician. Flush skin or eye contact with water.

## V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	Avoid heat, fire, and sparks.
UNSTABLE	STABLE		
---	✓		
INCOMPATIBILITY (materials to avoid)		Avoid contamination with strong alkalies.	
HAZARDOUS DECOMPOSITION PRODUCTS		Thermal decomposition may produce carbon monoxide and/or carbon dioxide.	
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID	None
May Occur	Will not Occur		
---	✓		

## VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Flush with large volumes of water.
WASTE DISPOSAL METHOD	Incinerate in a furnace.

## VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)		Air-supplied mask in confined areas	
VENTILATION	LOCAL EXHAUST	Preferable	SPECIAL
	MECHANICAL (general)	Acceptable	OTHER
PROTECTIVE GLOVES		Advisable	EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT		Safety shower and eye bath	Goggles

## VIII. SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING	<p style="text-align: center;">ISOPROPYL ACETATE</p> <p><b>WARNING! FLAMMABLE. BREATHING OF VAPOR MAY BE HARMFUL.</b>            Keep away from heat, sparks, and fire. Do not leave container open. Use with adequate ventilation. Avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated contact of liquid with skin.</p> <p style="text-align: center;">FOR INDUSTRY USE ONLY</p>
OTHER HANDLING AND STORAGE CONDITIONS	---

McKESSON CHEMICAL COMPANY  
APPROVAL TO REPACKAGE

BRANCH San Francisco Branch REQUEST DATED 6-18-71 REGION APPROVED 6-28-71  
ITEM Isopropanol GRADE 99%  
SUPPLIER(S) Union Carbide Corp.

PACKED FROM Compartment Tank Trucks

DOT REGULATED Yes COMMODITY LABEL McKesson (9SIA/I22PSIB)

CONTAINER TYPE DOT 17E 20/18 Drums NET CONTENTS 54 gallons

☒ NON-RETURNABLE ☐ RETURNABLE AT \$ \_\_\_\_\_ DEPOSIT

FLASH POINT 63 °F

SPECIAL NOTES AND/OR PRECAUTIONS :

- o Prior to filling, each drum must be reconditioned by a reliable Drum House in accordance with DOT regulations for reuse and bear the DOT approval stamp.
- o No open flame or unprotected lights permitted in repack area.
- o Static Grounding equipment must be used. Inspect before each use.
- o Be cautious of contamination when switching compartments. Carefully flush the system and observe a sample to be sure.
- o Stencil each drum "Isopropanol-Red Label".

HOME OFFICE APPROVAL *W. B. Smith* DATE OCT 8 1971

The Regional Office will insert below and on the reverse side special instructions, procedures, tips on safety and handling as an aid to the Branch in utilizing the facilities and equipment available to them in the most efficient manner. When completed, sign and date the form and send copies to the Branch, along with copies for Home Office, Region and District files.

OCT 08 1971

COMPLETED BY

TITLE

DATE

McK00776

# HOME OFFICE REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch SAN FRANCISCO BAY

Date Rec'd 6-30-71

Item ISOPROPYL ALCOHOL 99%

APPROVAL:		Yes	No	Initial & Date
1.	A. S. Barada	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ASB 8/26/71
2.	R. D. Shaw	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RDSh 8/2/71
3.	J. P. Hobe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JPH 8/16/71
4.	V. T. Staraci	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VTS 8/26/71
5.	C. A. Gafney	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAG 8/26/71

63 of  
Flash Point

Please return to A. S. Barada

## Comments:

2. ASB has approved. Excellent sales growth potential, good profit growth. Latex to be further improved if good source of recovered containers can be located. See related requests for MEK, Butyl Cellosolve, Methanol, and Acetone.

5/1/71

4) on it

REQUEST TO REPACKAGE

(Revised - Jan. 1971)

Branch San Francisco Chemical

Date June 18, 1971

Name and Grade of Item to be Repacked Isopropyl Alcohol 99%

Instructions - A separate form must be completed for each package size.  
Insert information where requested and delete units which  
which do not apply. Where comments are requested, be as  
complete as possible yet concise.

A. CURRENT INFORMATION

1. Name of Supplier Union Carbide Corporation
2. How is material now being obtained? Drum T/L Combination
3. Size and type of container 54 Gallon Steel Drums 17E
4. Net Weight 355 lbs.
5. Amount of Supplier's Container Deposit \$ None
6. Present cost into stock including freight but less any allowances
  - a) Unit Cost \$ .676 (~~xxx~~) (gal)
  - b) Package Cost \$ 36.53 each
7. Number of Current Branch Customers 15
8. Average monthly Sales to these Customers 12 (drums) (~~xxx~~)/mo:

B. PACKAGING PROPOSAL

1. Name of Supplier (s) Union Carbide Corporation
2. Is material to be Packed from Supplier's Drums? ☐ Yes ☒ No  
If yes, Supplier's container Deposit is \$ \_\_\_\_\_  
If no, complete items 3 and 4 below
3. 2,000 gallons of Bulk material will be received in (multi) (~~single~~)  
compartment (~~tank truck~~) (tank truck). If more than one compartment  
identify other items in the load Acetone, Methyl Ethyl Ketone,  
Methanol

JUN 30 1971

McK00778

4. Bulk Material will be loaded: ☐ Into a storage tank

☒ Directly into Containers ☐ Other (explain) \_\_\_\_\_

5. Each container is to be filled to 54 (~~155~~) (gal) net and is,

☒ Non-Returnable (N/R) which meets DOT\* Specification 17E

costing \$ 8.20 each. A lining is required ☐ Yes ☐ No

☐ Returnable and the Deposit to Customers is to be \$ \_\_\_\_\_

Type of Style Container \_\_\_\_\_

Sufficient containers are presently on hand ☐ Yes ☒ No

must purchase 50 at \$ 8.20 each

6. McKesson label, Code Number 9SIA will be used. If a McKesson label is not available, attach a copy of the Supplier's label.

7. Estimate Repack Cost - Use latest Branch Repack Quarterly Analysis of cost to estimate direct labor and overhead. Consult Regional Accounting Office if information is not available. Information is taken from report for period ending 3-31-71

	Per Package	Unit Cost
a) Bulk Material	23.49	.435/Gal.
b) N/R Container	8.20	.15/Gal.
c) Direct labor	.22	.004/Gal.
d) Overhead	.97	.018/Gal.
e) Total cost to repack	32.88	.607/Gal.
f) Present cost (A-6)	36.53	.676/Gal.
g) Additional Profits	3.65	.069/Gal.

Amount of profit improvement through repacking (existing business)

$\frac{22}{\text{Avg Sales/mo (A-8)}} \times \frac{3.65}{\text{Add'l Profit/Pkg}} \times 12 = \$ 963.60 \text{ per year}$

\* Used drums to be used if authorized DOT recooper with good drums can be found

\* Department of Transportation

McK00779

8. Does the Branch have up-to-date Supplier's literature concerning potential hazards and their recommendations for handling and storing this material? ☒ Yes ☐ No. If not has this literature been requested? ☐ Yes ☐ No.

9. As classified by DOT, is this material "regulated"? ☒ Yes ☐ No

If yes, the required Caution label is ☐ White ☐ Yellow

☒ Red ☐ Other, explain \_\_\_\_\_

10. To handle this item, Branch Repackaging facilities:

☒ Are adequately equipped requiring only a nominal amount of expense estimated at \$ \_\_\_\_\_ for miscellaneous hose, fittings, etc.

☐ Will require additional equipment or modification of a Capital nature estimated at \$ \_\_\_\_\_. This is provided in the Budget ☐ Yes ☐ No.

Furnish complete details.

C. PERSONNEL REQUIREMENTS - Advise if additional employees will be needed and the resulting additional labor expense.

I additional person will be needed for all packaging requests

D. ADVANTAGES AND OTHER COMMENTS

1. As a result of repacking, additional business can be expected in the near term as follows:

a) Number of new accounts 45

b) Additional packages to be sold 1620 per year

c) Additional annual sales \$ 69,000.00

d) Additional gross profit \$ 16,200.00

2. Besides an apparent savings, just why is this repackaging being requested? If a competitive situation is involved, briefly discuss who, where and the exact nature of the competition.

Will permit to be competitive on drums and will allow us to obtain new small bulk customers or a stop in transit delivery basis.

JR Vanant 6-22-71  
(Branch Manager) (Date)

[Signature]  
(District Manager) (Date)

[Signature] 6/28/71  
(Regional Manager) (Date)



McKESSON CHEMICAL COMPANY  
APPROVAL TO REPACKAGE

Branch/PRF Union City / SF Region Approved 11/3/82

Item K-Flex DP (dipropylene glycol dibenzoate)

Supplier(s) Kalama TOSCA No. (s) \_\_\_\_\_

Packed From Comp. Tank Truck UN No. \_\_\_\_\_

DOT Class Non-regulated Commodity Label Supplier

Container Type ACT II - 55 Gal. Net Weight(s) 500 lbs.

Poly Drum

☐ Non-Returnable ☒ Returnable

Sp. Gr. \_\_\_\_\_ Flash. \_\_\_\_\_ Other  
Point 400+ °F TLV N/A Hazard \_\_\_\_\_

Product waste to be regarded as hazardous: Yes ☐ No ☒

SPECIAL NOTES AND/OR PRECAUTIONS

- Empty drums returned from customers are to be properly emptied, washed, inspected or repaired as required. Neat appearance is a must.
- Be cautious of contamination when switching compartments. Carefully flush the system and observe a sample to be sure.
- In addition to labeling, stencil each drum "K-Flex DP".
- See Repack Instruction Sheet, attached.

HOME OFFICE APPROVAL

C.R. Piercy  
C.R. Piercy

Date: 12/1/82

McK00781

# REVIEW OF BRANCH REQUEST TO REPACKAGE

Branch/PRF Union City Region Approved 11/3/82  
 Item K-Flex DP (dipropylene glycol dibenzoate) Request to Repack Shows:  
 Supplier(s) Kalama Present Sales 960 Dms. /Yr.  
 Addn. Sales \_\_\_\_\_ /Yr.  
 Packed From Comp. Tank Truck Savings/Profit /26,400 /Yr.  
 DOT Class Non-regulated UN No. \_\_\_\_\_ TOSCA No. \_\_\_\_\_  
 Container Type ACTII - 55 Gal.  
Poly Drums Commodity Label Supplier  
 Net Weight(s) 500 lbs.  
☐ Non-Returnable ☒ Returnable @ \$ \_\_\_\_\_ Deposit  
 Sp. Gr. \_\_\_\_\_ Flash Point 400+ °F TLV N/A Other \_\_\_\_\_  
 Product waste to be regarded as hazardous: Yes ☐ No ☒

<u>ROUTING:</u>	<u>YES</u>	<u>NO</u>	<u>Initial and Date</u>
1. C.R. Piercy <i>mt</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>CP 11/15/82</u>
2. D.L. Eisner <i>-7</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>DE 11/9/82</u>
3. M.A. Minor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>MMA Minor 11-18-82</u>
4. D.A. Davis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>DA 11/22/82</u>
5. C.R. Piercy	<input type="checkbox"/>	<input type="checkbox"/>	

COMMENTS: 1.) No operating problems anticipated.  
A test will be made by poly drum supplier  
to assure long term compatibility.

Code: (4)  
(10)  
(4) K-Flex DP  
(17)

# REQUEST TO REPACKAGE

(Revised - Jan. 1971)

Branch SEABAY BRANCH (UNION CITY)

Date 10-25-82

Name and Grade of Item to be Repacked K-FLEX DIAROPYLENE  
GLYCOL  
DIBENZOATE

Instructions - A separate form must be completed for each package size.  
Insert information where requested and delete units which  
do not apply. Where comments are requested, be as  
complete as possible yet concise.

## A. CURRENT INFORMATION

1. Name of Supplier KALAMA
2. How is material now being obtained? DRUMS
3. Size and type of container 55 GAL.
4. Net Weight 500 lbs.
5. Amount of Supplier's Container Deposit \$ NONE
6. Present cost into stock including freight but less any allowances
  - a) Unit Cost \$ .631-10% FA (cwt) (gal.)
  - b) Package Cost \$ 283.50 (each)
7. Number of Current Branch customers 1
8. Average monthly Sales to these Customers 80 (drums) (cbys)/mo.

## B. PACKAGING PROPOSAL

1. Name of Supplier(s) KALAMA CHEMICAL
2. Is material to be Packed from Supplier's Drums? ☐ Yes ☒ No  
If yes, Supplier's container Deposit is \$ \_\_\_\_\_  
If no, complete items 3 and 4 below
3. 5000 gallons of Bulk material will be received in (multi)  
compartment (tank car) (tank truck). If more than one compartment  
identify other items in the load \_\_\_\_\_

4. Bulk Material will be loaded: ☐ Into a storage tank  
☒ Directly into Containers ☐ Other (explain) \_\_\_\_\_
5. Each container is to be filled to 500 (lbs.) (gal) net and is,  
☐ Non-Returnable (N/R) which meets DOT\* Specification \_\_\_\_\_  
costing \$ \_\_\_\_\_ each. A lining is required ☐ Yes ☐ No  
☒ Returnable and the Deposit to Customers is to be \$ \_\_\_\_\_  
Type of Style Container ACT II POLY DRUM 55 GAL  
Sufficient containers are presently on hand ☐ Yes ☒ No  
must purchase 100 at \$ 26.50 each
6. McKesson label, Code Number SUPPLIER'S LABEL will be used. If a McKesson Label is not available, attach a copy of the Supplier's label.
7. Estimate Repack Cost - Use latest Branch Repack Quarterly Analysis of cost to estimate direct labor and overhead. Consult Regional Accounting Office if information is not available. Information is taken from report for period ending CURRENT

COST \$.44 BULK DELIVERED

	Per Package	Unit Cost CWT
a) Bulk Material	<u>220.00</u>	<u>.44</u>
b) N/R Container	<u>—</u>	<u>—</u>
c) Direct Labor	<u>1.27</u>	<u>22.77 hr.</u>
d) Overhead	<u>.13</u>	<u>1.30 CWT</u>
e) Total cost to repack	<u>221.40</u>	<u>24.51</u>
f) Present cost (A-6)	<u>283.50</u>	<del>283.50</del>
g) Additional Profits	<u>62.10</u>	

Amount of profit improvement through repacking (existing business)

80 x 62.10 x 12 59,616 per year.

Avg. Sales/mo (A-8) Add'l Profit/Pkg